

osmose firmware update

 (cliquez ici pour la [version française](#) )

content of the firmware download

*.osmoseupdate file: This file is a “monolith” file that contains both the Osmose operating system as well as the EaganMatrix DSP firmware and its factory sound database.

OsmoseUpdater installer: This application allows flashing the firmware of Osmose and its DSP as well as backing up and restoring user data.

how to check your current firmware version

- On your Osmose, press the mode button (m) in the upper left corner to access [mode selection screen](#).
- Press the 4th Value Encoder below the screen to access global settings (⚙️)
- Scroll to the [info tab](#) with the Tab Selector on the upper left of the screen to see both the Osmose version (operating system version) as well as the Haken version (dsp firmware version)

logic of the firmware update

A complete firmware update contains the following four steps:

- backing up user sound presets saved in the Haken DSP memory
- flashing the Osmose operating system
- flashing the Haken DSP firmware (initializes all user sound presets)
- restoring the user sound presets.

If your Haken version is already 10.09 and you can access all 500 factory sounds, then it won't be necessary to perform a complete firmware flash unless there is a problem with the DSP. You should use the advanced mode of the OsmoseUpdater to flash the Osmose operating system exclusively (see step 4a, page 3).

troubleshooting

if you encounter an issue with the firmware upgrade, please visit our online knowledge base's Osmose [troubleshooting section](#). You can create a support ticket there when requiring personal assistance.

how to flash the osmose firmware

1. download and install osmoseupdater

⚠ Minimum requirements for OsmoseUpdater are macOS 10.12 or Windows 10.

Do not try the update from an older, incompatible machine.

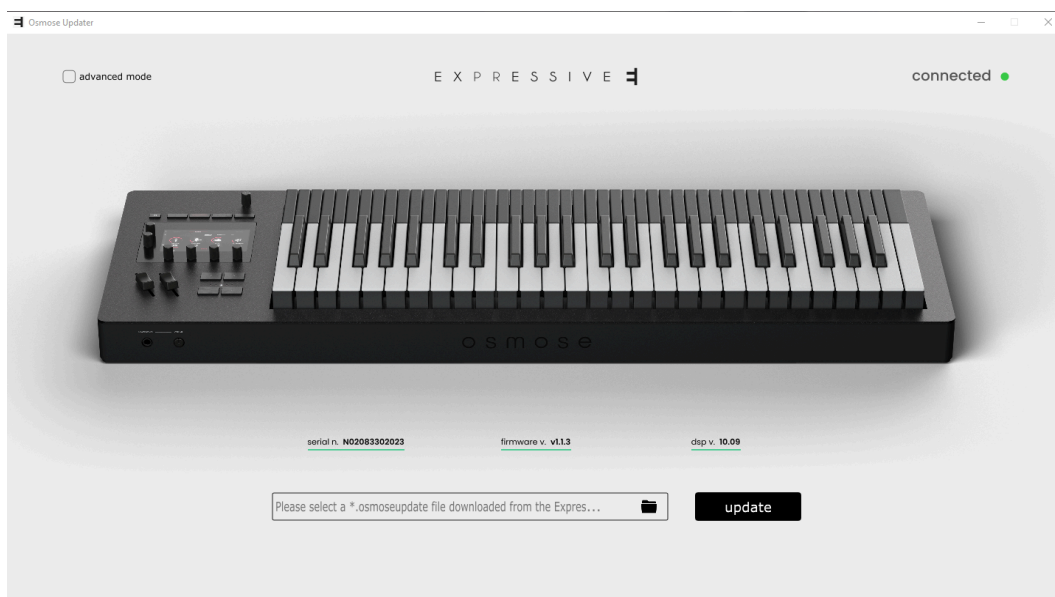
- In your Expressive E user account, section “my downloads & serials”, download the firmware file that matches your operating system.
- Unzip the archive you have downloaded and launch the OsmoseUpdater installer.

2. connect osmose to your computer

- Power on your Osmose. Please note that the power supply has a locking connector to prevent accidental disconnection. When inserting, align the power connector’s wings to match the horizontal notches on the power input. Push firmly, then rotate the barrel clockwise to secure it to the casing.
- Connect Osmose to your computer using the USB cable included in the box.

3. launch osmoseupdater

- Before you launch OsmoseUpdater, please ensure that the Haken Editor is not open on your computer
- Launch OsmoseUpdater. You will find the app by typing its name into the Start Menu (Windows) or Spotlight (macOS).



4. update the firmware

option a) update from a final firmware

If your Osmose was delivered starting December 2023, or if you have already performed a firmware update in the past, then your Haken DSP firmware version should already be on 10.09 (see first page).

It is then recommended to skip the DSP update and the user data backup and restore procedure that goes with it. Instead, use OsmoseUpdater's Advanced Mode to run the Osmose operating system update exclusively. It will save you time and avoid possible problems with the backup/restore procedure.


- Click on "advanced mode" in the upper left corner of OsmoseUpdater
- Click the second button "Update Osmose Firmware" and choose 'continue'.
- Choose the *.osmoseupdate file contained in the zip file you downloaded. A separate update of the operating system will be launched.

option b) update from an early factory firmware

If your Osmose was delivered earlier than December 2023, then your firmware version has the suffix "-factory" in its version, and your DSP version is probably not 10.09 yet (see first page). Upon booting, Osmose shows a popup that warns you that your firmware needs to be updated.

You will need to run a first, full update of both Osmose's operating system as well as of the DSP firmware to get access to all of Osmose's features and the current factory preset database:

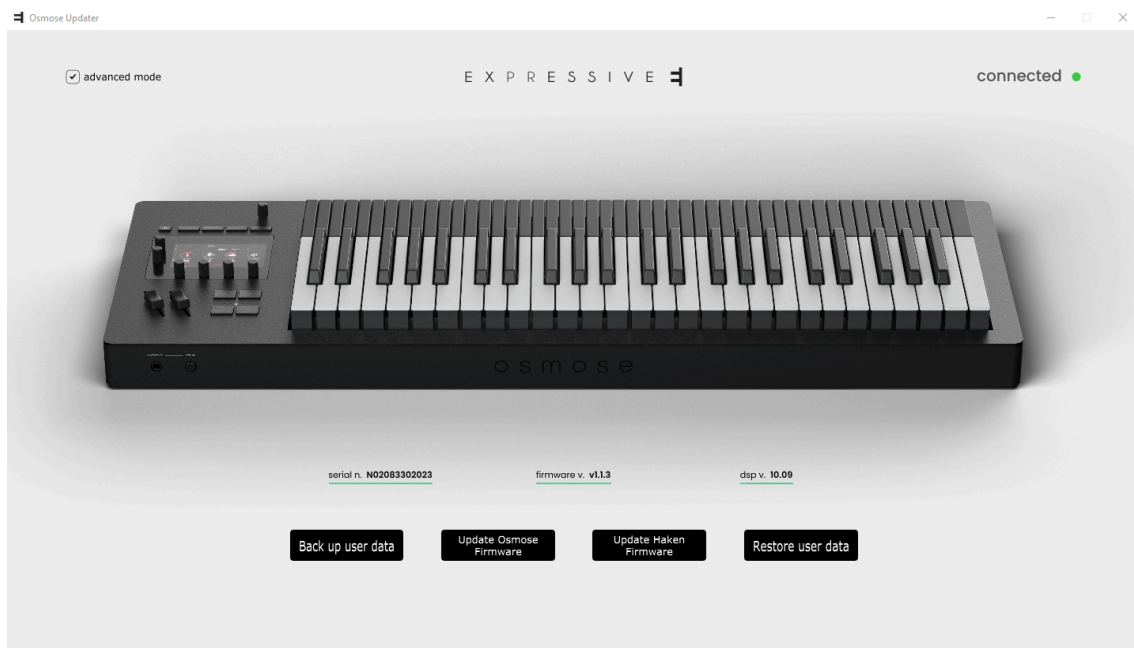
- Within OsmoseUpdater, click on the folder icon and choose the *.osmoseupdate file contained in the zip file you downloaded.
- Click on "update" and follow the on-screen instructions.

 Both Osmose's operating system and the Haken Audio DSP firmware will be updated. This process can take up to 30 minutes. **Do not disconnect or shut down Osmose until the update process is completed.** Once the update is completed, your Osmose's screen will prompt you to power cycle the instrument. Only then, switch Osmose off and on again. After the reboot, your Osmose will be ready.

how to use advanced mode

You can use the advanced mode of OsmoseUpdater to perform the four steps of a complete firmware update independently from each other. Tick the box in the upper left corner of OsmoseUpdater to access the advanced mode.

⚠ Before you launch any advanced functions, please ensure the Haken Editor is not running on your computer.



back up user data

This operation retrieves the user sound presets from the Haken DSP board and saves them into a directory on your computer. The external saving options 'custom sensitivity' and 'arpeggiator' are not part of the Haken preset format itself and will not be backed up with it.

- Click the "Back up user data" button and select the folder your user presets will be exported to. The app will automatically create a subfolder named with a time stamp.
- Do not press any button on your Osmose until the backup is completed.
- It is recommended to power cycle after the backup has finished.

i You won't be asked a file path if you perform a full update (not using advanced mode). In this case, the default directories for backing up user presets are:

Windows:


C:\Users*yourusername*\AppData\Roaming\OsmoseUpdater

macOS:

.../Users/*yourusername*/Library/Application/Support/OsmoseUpdater

update osmose firmware

This operation updates the Osmose operating system only (not the DSP firmware). It takes about 5 minutes to complete.


 This feature is useful if an issue occurred during your last firmware update, and your Osmose is stuck with a blank screen. In that case, reboot your device while pressing and holding the “m” button in the top-left corner of the screen. It will send Osmose into Bootloader Mode so that OsmoseUpdater can detect it.

- Click the “Update Osmose Firmware” button and choose the *.osmoseupdate file contained in the zip file you downloaded. It will launch the update.

Unless you are skipping the DSP update deliberately, in order to avoid compatibility issues, it is recommended to continue updating the DSP as well, using the same *.osmoseupdate file (see below).

update haken firmware

This operation flashes the Haken DSP Firmware only. It includes the factory sound database and takes about 15 minutes to complete.

 **Updating the DSP firmware will delete all your user presets.** Use the ‘back up user data’ and ‘restore user data’ functions if you wish to keep your user presets.

- Click the “Update Haken Firmware” button and choose the *.osmoseupdate file contained in the zip file you downloaded. It will launch the update.
- When the update is complete, a message on your Osmose will prompt you to power cycle. Please do as instructed before launching any other advanced mode action.

restore user data

This action sends the user sound presets from a selected snapshot that you saved using the function “back up user data” back into the Osmose.

- To use this feature, click the “Restore user data” button and select the snapshot folder from which you wish to restore.
- When the upload is complete, a message on your Osmose will prompt you to power cycle. Please do as instructed before launching any other advanced mode function.